

RLT-FS101

Low-Oil Semi-Synthetic Additive Package

Description

RLT-FS101 Low-Oil Semi-Synthetic Additive Package is a low-oil concentrate specially developed for metalworking. Formulated with lubricant additives, rust inhibitors and non-ferrous metal corrosion inhibitors, it can be simply diluted with water to prepare cost-effective synthetic grinding and cutting fluids. The finished working fluid features excellent cooling performance and fast defoaming capacity, alongside outstanding lubricity and rust protection. It contains no heavy metals, sodium nitrite, phenols or other hazardous substances.

Suitable for machining cast iron, alloy steel, carbon steel, aluminum and aluminum alloys.

Features and benefits

- ✧ The water-mixed finished product has good cooling, lubrication, cleaning and anti-rust functions.
- ✧ Water-soluble processing fluid is stable for a long time.
- ✧ Extend the tool life and improve the surface quality of the workpiece.
- ✧ Hard water adaptability is good.
- ✧ Waste liquid treatment is convenient and environmentally friendly.
- ✧ Defoaming is fast.

Typical physical and chemical properties

Test Item	Test Method	Technical Specification
Appearance of Concentrate	Visual Inspection	Yellow transparent liquid
Appearance of Diluted Fluid (5 wt.%)	Visual Inspection	Colorless transparent liquid
pH Value (5 wt.% Dilution)	pH Meter	8.8–9.2
Rust Prevention (Cast Iron Chips, 5 wt.%, 18–25°C, 2 h)	JB/T 9189-2010	Grade 0, no rust formation
Corrosion Resistance (55°C±2°C, 8 h) 45# Carbon Steel	GB/T 6144	Grade A
Corrosion Resistance (55°C±2°C, 8 h) Red Copper	GB/T 6144	Grade A
Corrosion Resistance (55°C±2°C, 8 h) LY12 Aluminum Alloy	GB/T 6144	Grade A
Defoaming Performance (5 wt.% Diluted Fluid)	GB/T 6144	Foam height ≤ 2 mL after 10 min

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Test Item	Test Method	Technical Specification
Nitrite Content, mg/L	Precision Nitrite Test Strips	Non-detectable

Application

It can be used for the processing of cast iron, alloy steel, carbon steel, zinc alloy, aluminium, aluminium alloy and other materials.

Application Instructions

- ✧ Mixing: Add water to this concentrate at ambient temperature, stir until fully clear to obtain ready-to-use metalworking fluid.
- ✧ Recommended mixing ratio: 45 – 55 wt.% concentrate in finished fluid.

Product Appearance

From left to right: FS101 Additive Package, Concentrate, Diluted Fluid.

